Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Per.: \_\_\_\_\_\_\_\_

**Homework 5.5: Triangle Similarity Theorems and Proofs**

Directions: In class, we worked with the Angle Angle Similarity Theorem. Using what you know about AA in addition to the new theorems below, determine if the triangles are similar.

**Angle Angle Similarity Postulate**: If two angles of one triangle are congruent to two angles of another triangle, then the triangles are similar.

**Side Angle Side Similarity Theorem**: If an angle of one triangle is congruent to an angle of a second triangle, and the sides including the two angles are proportional, then the triangles are similar.

**Side Side Side Similarity Theorem**: If the corresponding sides of two triangles are proportional, then the triangles are similar.

Determine whether the triangles are similar. If so, write a similarity statement and name the postulate or theorem you used. If not, explain.

